WATERAX

wildfire

PORTABLE FIRE PUMPS

2011 PRODUCT GUIDE

WE MOVE WATER

COMPANY PROFILE

Wildfire, a time-honoured company, is a world leader in inventing, making and delivering premium water handling equipment for firefighters, agencies and governments dedicated to wildland fire control.

Building on Watson Jack & Co. Ltd.'s entry into the fire control industry in the 1920s, when the company initially established itself as a manufacturer of a powerful 200 psi portable fire pump called the WAJAX (an acronym of Watson Jack's name), our products have evolved throughout the decades thanks to the collaboration of wildland firefighters.

Best known for the Mark-3®, the benchmark in high pressure, portable centrifugal pumps, Wildfire also manufactures: slip-ons, fireline hardware, backpacks, forestry tools, portable water tanks and other related products. We also offer speciality fire hose, foam, aqueous firefighting gel and much more.

The upshot of Wildfire's recent management buy-out is a return to its roots as a manufacturer, driving a renewed emphasis on being the water handling experts. With Wildfire's ongoing commitment to the development of innovative products and servicing of its customers, we will strive to be recognized as the market leader in wildland and urban interface fire suppression products.

MISSION STATEMENT

Our mission is to Invent, Make and Deliver comprehensive water handling solutions. Our sense of urgency when responding to emergency situations is the foundation of our reputation is what makes us the preferred choice in a field where trust matters most.

TABLE OF CONTENTS

	Page
PORTABLE FIRE PUMPS	
MARK-3	3-4
BB-4	5-6
ULTRA-STRIKER	7
STRIKER II-PLUS	8
MINI-STRIKER	9
MOSKITO	10
PUMP ENDS	11-13
DRIVE ASSEMBLY	14
PRIMERS	15-16
TOOL KITS	17-18
FIRELINE ACCESSORIES	
SUCTION HOSES	19
CHECK VALVES	20
FUEL TANKS	21
CONTROL PANELS	21
FOAM	22-24

WATERAX

THE BENCHMARK OF EXCELLENCE

***WATERAX* by Wildfire** is a full line of lightweight high pressure portable fire pumps. These multistage centrifugal pump systems allow for pumping from natural water sources — such as lakes, streams, and rivers — that often contain minor debris. A major advantage of high pressure centrifugal systems is that they allow for tandem pumping which enables users to move water over greater distances and elevation.

WATERAX's origins date back to the 1920s, when the Watson Jack & Co. (the root company from which Wildfire originated) had established itself as a manufacturer of a powerful 200 psi portable fire pump called the WAJAX.

The first of its kind, this pump was the pioneer in the field of portable fire pumps used in forest firefighting. The time-tested quality, reliability, and durability of *WATERAX* pump systems are what have made them the most trusted pumps in the industry today and the benchmark of excellence in forestry water handling systems.

Photo: Suzanne Lake fire, Sioux Lookout District, July 1961

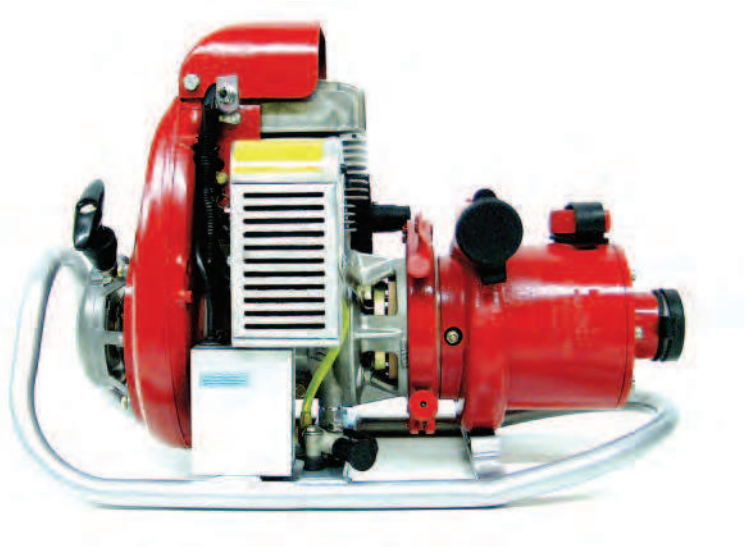
MARK-3®

Portable 4-Stage Fire Pump

The true benchmark of excellence, the *WATERAX* Mark-3® pump is the most trusted and time-tested pump in the industry. A truly outstanding and reliable performer, it is designed to withstand the rigors and extreme conditions of wildland firefighting. Despite its remarkable ability to maintain high pressure over extraordinary distances and elevation, it weighs under 60 lbs and is one-person portable, a critical attribute out in the field. The Mark-3® is the core of superior water handling systems upon which specifications and standards are built around.

It is no wonder that the Mark-3® has garnered the respect and devotion of forest firefighters everywhere and is the standard Wildland fire pump around the world. No matter where forest fires are being fought, the familiar buzz of a Mark-3® unit in operation is never far away.

USDA Forest Service Qualified Specification 5100-274E.



Engine Specifications

Engine	Rotax® model 185 cc 2-cycle, air-cooled Single cylinder with replaceable cast iron sleeve
Maximum power	10 HP (7.46 kW)
Starting system	Recoil with backup manual rope starter
Ignition system	Ducati Electronic Ignition
Stroke	2.40" (61 mm)
Bore	2.44" (62 mm)
Displacement	185 cc (11.29 cubic inches)
Lubrication	Gas/oil mixture ratio 24:1

Pump Unit Specifications (See parts breakdown page 11-13)

- Detachable 4-stage centrifugal pump end, **Model 12-16**
- Quick release pump clamp
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Stainless steel shaft
- Mechanical rotary seal with blister-resistant carbon seal face and a silicone carbide seat
- Digital overspeed cut-out switch
- 2" (51 mm) NPSH suction threads
- 1 1/2" (38 mm) NPSH discharge threads
- Fuel consumption 1.2 US gals/hour (4.5 L/hour)

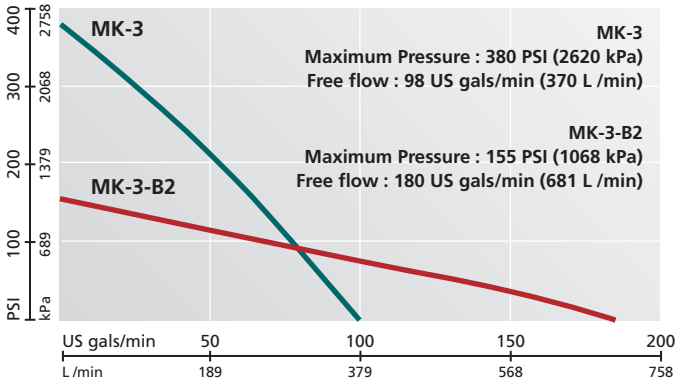
Length	23" (58 cm)
Width	12" (31 cm)
Height	16 1/4" (41 cm)
Weight	59.8 lbs (27.1 kg)

Features

- US Forest Service approved spark arrestor
- **12-401B-NS** Fuel line with **R-712** 1/4-turn handle
- Fuel air transport tank 5.3 US gals (20 L) **FA-552Q** or GSA model fuel tank and fuel line
- Standard operating tool kit
- Powder coated steel frame
- Rubber protection caps
- Foam solutions pumping capability
- Service manual and parts list **MANPL-MK-3E**

Options

- **R-233DS** Decompression Switch Assembly (except on GSA model)
- **B-2** volume 2-stage pump end
- Thread protector 2" (51 mm) NPSH **A-2688**
- Thread protector 1 1/2" (38 mm) NPSH, NH or 1/4-turn **(ADP-A-FM15S, ADP-L-FM15SN or FA-4)**
- Fuel line Hansen 1/4-turn
- Engine and pump repair tool kits **R-900, R-952, A-2356**
- **C-7404** Backpack carrying frame



12-28NS NEW
Mechanical Rotary Seal

- Rotary seal durability increased at least fivefold.
- Increases pump reliability by allowing less weeping than the previous seal which also increases longevity of the ball bearing.
- Increased durability under partial dry running conditions.
- Has an integrated drive bushing now made of robust stainless steel.
- Compatible with existing pumps.

FDT-MD-32X32
Mini-Dam®

The Mini-Dam® is designed for the secondary containment of hazardous materials from fuel and oil spills that occur when operating engine driven, gasoline and diesel powered equipment. The Mini-Dam® fits the footprint of most portable pumps and generators. It easily collapses for maximum portability and was designed to fit in the Mark-3® kit assembled at numerous fire caches. Strengthening rods, reinforced corners and grommets are provided to add stability and offer a tie-down option. The Mini-Dam® can also be used as a portable sand table for strategic planning.

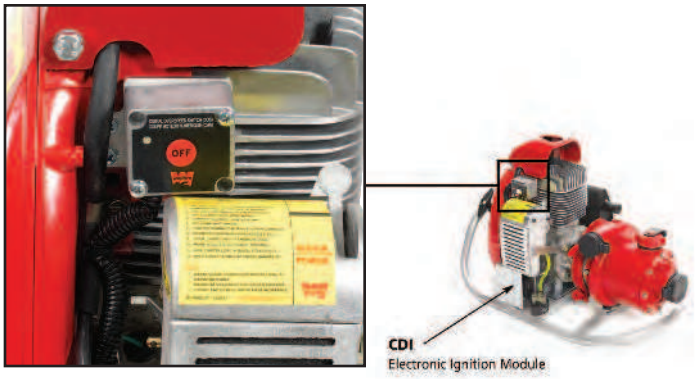
Construction: 22 oz, red heavy duty HPR

Dimensions (deployed): 32" x 32" x 4" (81 x 81 x 10 cm)
(collapsed): 4 1/2" X 1 1/2" X 32" (10.5 x 3.8 x 81 cm)

Mini-Dam shown with Mark-3 fire pump and GSA fuel tank.

DIGITAL OVERSPEED SWITCH (DOS)

The new Digital Overspeed Switch (DOS) continuously monitors the engine's speed through the use of a microcontroller which, once overspeed is detected, re-validates that the condition exists then immediately shuts down the pump. Adjustment of a tension spring is no longer required. An "ON/OFF" switch is also no longer required. This also reduces the amount of wiring and spare parts necessary for each unit. Can be installed on any Mark-3® equipped with electronic ignition module.



DIC-HOURMETER NEW
Hour Meter

The perfect maintenance solution for monitoring and properly maintaining any gas powered equipment. Solid state electronics, superb environmental durability and enhanced functionality are the key features of this unit.

Option

MTR-1000 Hour meter (With tachometer)

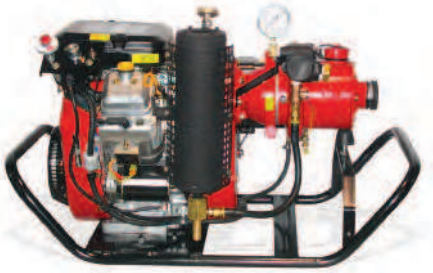
C-7404
Mark-3® Pump Carrying Pack

The C-7404 is an economical model carrying pack designed to carry the Mark-3 Fire pump. It comes with adjustable nylon straps and also serves as an effective resting surface for operating the pump on the terrain.

BB-4®

Portable 4-Stage High Pressure Fire Pump

The Wildfire model BB-4® portable fire pump is an ideal unit for high volume remote watering, brush truck and slip-on fire fighting systems in forestry and rural fire environments. High pressure up to 425 PSI (2930 kPa) is provided to operate very long hose lays and overcome pressure losses due to large elevation changes often encountered in rugged wildland fire operations. The higher power makes it ideal for pumping at high altitudes. A unique feature of the BB-4® pump is the quick release pump end that is inter-changeable with our Mark-3® pump. This standardization allows for in-field pump end exchanges eliminating long equipment down time and greatly reduces the inventory of parts at equipment service shops.



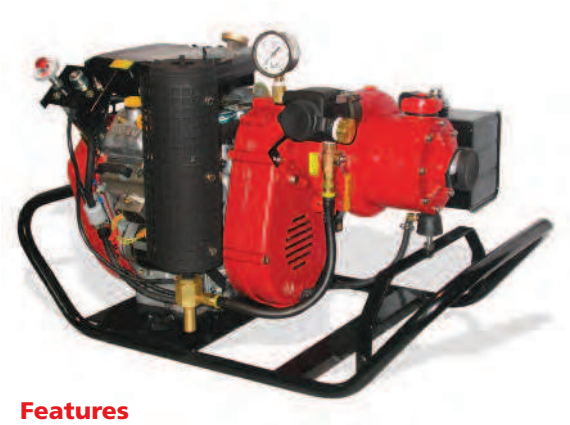
Engine Specifications

Engine	Briggs & Stratton® Model Vanguard® 4-cycle, air-cooled Twin cylinder, overhead valve
Maximum power	23 HP (17.2 kW)
Starting system	Electric with backup recoil starter
Ignition system	Magnetron® electronic
Charging system	16 amp alternator
Stroke	2.75" (70 mm)
Bore	2.97" (75.5 mm)
Displacement	627 cc (38.2 cubic inches)
Lubrication	Oil (full pressure)
Oil capacity	1.5 US quart (1.42 L) replaceable oil filter
Integral fuel tank	1.5 US gals (5.7 L) with valve for outside fuel source, 3-way valve

Pump Unit Specifications (See parts breakdown page 11-13)

- Detachable 4-stage centrifugal pump end, Model **12-16**
- Quick release pump clamp
- Belt driven speed increaser (See parts breakdown page 14)
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Stainless steel shaft
- Mechanical rotary seal with blister-resistant carbon seal face and a silicone carbide seat
- Governor system for overspeed protection
- 2" (51 mm) NPSH suction threads
- 1 1/2" (38 mm) NPSH discharge threads
- Fuel consumption 1.8 US gals/hour (6.8 L /hour)

Length	35" (89 cm)
Width	22 1/2" (57 cm)
Height	21" (54 cm)
Weight	171 lbs (77 kg)

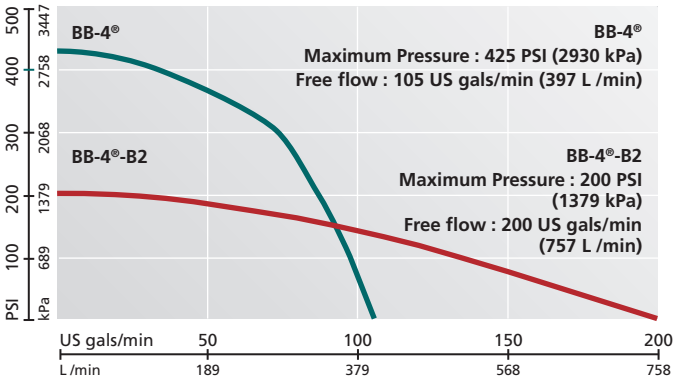


Features

- US Forest Service approved spark arrestor
- Electric starter, low oil protection
- Exhaust priming system
- Integral fuel tank
- Checkvalve (NH or NPSH)
- Powder coated extended steel carry frame
- Standard control panel, choke / throttle / on-off
- Pressure gauge 0-600 PSI (0-4200 kPa) **GAUGE-1**
- Foam solutions pumping capability
- Service manual **MAN-BB4-E**

Options

- **B-2** volume 2-stage pump end
- Thread protector 2" (51 mm) NPSH **A-2688**
- Thread protector 1 1/2" (38 mm) NPSH, NH or 1/4-turn **(ADP-A-FM15S, ADP-L-FM15SN or FA-4)**
- Remote Fuel air transport tank 5.3 US gals (20 L) **FA-552Q**
- Steel fuel tank 5 US gals (18.9 L) **FA-352GSA**
- Fuel line **12-401B-NS** or **R-1206A**
- Battery and cable kit **A-7612**
- Electric priming pump **B-7498**
- Full control panel **180-005-01** (See parts breakdown page 21)
- **BB-4® Slip-On** version w/ Low Tone mufflers; less exhaust priming muffler, check valve, 6 qt fuel tank, standard control panel, and carry frame)
- **A-2356** Pump end tool kit



BB-4®-B2

This BB-4 variation is equipped with a B-2 pump end making it optimal for moving large volumes of water. The 2.5" inlet and outlet of the B-2 pump end, coupled with the power of the BB-4 unit, makes it the ideal pump for high volume remote watering, high volume brush truck and Slip-On units, for municipal pumping operations, and as the source pump for uphill tandem operations.

The B-2 pump end is compatible with and can instantly be coupled to a *WATERAX* Mark-3® pump using the same coupling system (P/N 212-170P). This practical versatility reduces overall inventory requirements, carrying weight capacity, and pump downtime in the field.

This unit's impressive water displacement performance makes it the volume juggernaut of the *WATERAX* family.

Engine Specifications

Engine	Briggs & Stratton® Model Vanguard® 4-cycle, air-cooled Twin cylinder, overhead valve
Maximum power	23 HP (17.2 kW)
Starting system	Electric with backup recoil starter
Ignition system	Magnetron® electronic
Charging system	16 amp alternator
Stroke	2.75" (70 mm)
Bore	2.97" (75.5 mm)
Displacement	627 cc (38.2 cubic inches)
Lubrication	Oil (full pressure)
Oil capacity	1.5 US quart (1.42 L) replaceable oil filter
Integral fuel tank	1.5 US gals (5.7 L) with valve for outside fuel source, 3-way valve

Pump Unit Specifications (See parts breakdown page 11-13)

- Quick release pump clamp
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Stainless steel shaft
- Mechanical rotary seal
- 2 1/2" (64 mm) NH suction and discharge threads
- Weight 14.8 lbs (6.7 kg)
- Interchangeable on Mark-3® and BB-4®

ULTRA-STRIKER®

Portable 3-Stage Fire Pump

The Ultra-Striker ® is a very versatile and compact unit. Capable of providing high-pressure nozzle streams for direct attack or volume flow 102 US gals/min (387 L / min) for water delivery at lower pressure. The Ultra-Striker ® is a portable unit, which can be used on a slip-on. This unit provides many interchangeable parts with the Mark-3®, BB-4® and other Striker pumps. It can be used by itself, in tandem or in parallel with other Wildfire pumps. This engine meets the current emissions standards of the US EPA and CARB regulations.

Engine Specifications

Engine	Honda® Model GX390 4-cycle, air-cooled Single cylinder, overhead valve
Maximum power	13 HP (10 kW)
Starting system	Electric with backup recoil starter
Ignition system	Transistorized magneto
Stroke	2.52" (64 mm)
Bore	3.46" (88 mm)
Displacement	389 cc (23.7 cubic inches)
Lubrication	Oil (splash)
Oil capacity	1.16 US quarts (1.1 L)
Integral fuel tank	1.72 US gals (6.5 L)

Pump Unit Specifications (See parts breakdown page 11-13)

- Detachable 3-stage centrifugal pump end, Model **18-16**
- Hand primed
- Quick release pump clamp
- Belt driven speed increaser (See parts breakdown page 14)
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Stainless steel shaft
- Mechanical rotary seal with blister-resistant carbon seal face and a silicone carbide seat
- Governor system for overspeed protection
- 2" (51 mm) NPSH suction threads
- 1 1/2" (38 mm) NPSH discharge threads
- Fuel consumption 1.14 US gals/hour (4.3 L /hour)

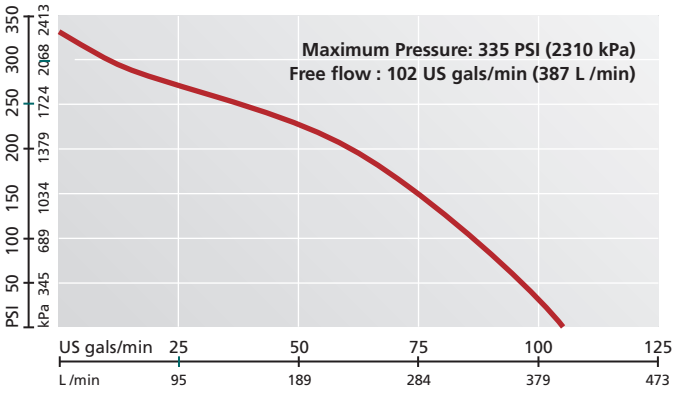
Length	33" (84 cm)
Width	21" (54 cm)
Height	21" (54 cm)
Weight	128 lbs (58 kg)

Features

- US Forest Service approved spark arrestor
- Electric starter
- Low oil protection
- Hand-pump priming system
- Powder coated steel carry frame with vinyl grips
- Inlet & outlet protective caps
- Pressure gauge **GAUGE-1**
- Checkvalve (NH or NPSH)
- Foam solutions pumping capability
- Service manual **MAN-US-E**

Options

- **ULTRA-SLIP** version (slip-on model)
- Thread protector 2" (51 mm) NPSH **A-2688**
- Thread protector 1 1/2" (38 mm) NPSH, NH or quarter turn **(ADP-A-FM15S, ADP-L-FM15SN or FA-4)**
- Battery and cable kit **A-7612**
- Full Control panel **180-005-01** (See parts breakdown page 21)
- **A-2356** Pump end tool kit



STRIKER II-PLUS®

Portable 2-Stage Fire Pump

The Striker II-Plus® is capable of providing high-pressure nozzle streams for direct attack or volume flow for water delivery at lower pressure. Able to work at higher elevations, the Striker II-Plus can also be used in tandem or in parallel with other Wildfire pumps. This unit provides many interchangeable parts with the MARK-3®, BB-4® and other Striker pumps. By simply exchanging the pump end the unit can be used as either a high pressure or volume pump. This engine meets the current emissions standards of the US EPA and CARB regulations.

Engine Specifications

Engine	Honda® model GX390 4-cycle, air-cooled Single cylinder, overhead valve
Maximum power	13 HP (10 kW)
Starting system	Electric with backup recoil starter
Ignition system	Transistorized magneto
Stroke	2.52" (64 mm)
Bore	3.46" (88 mm)
Displacement	389cc (23.7 cubic inches)
Lubrication	Oil (splash)
Oil capacity	1.16 US quarts (1.1 L)
Integral fuel tank	1.72 US gals (6.5 L)

Pump Unit Specifications (See parts breakdown page 11-13)

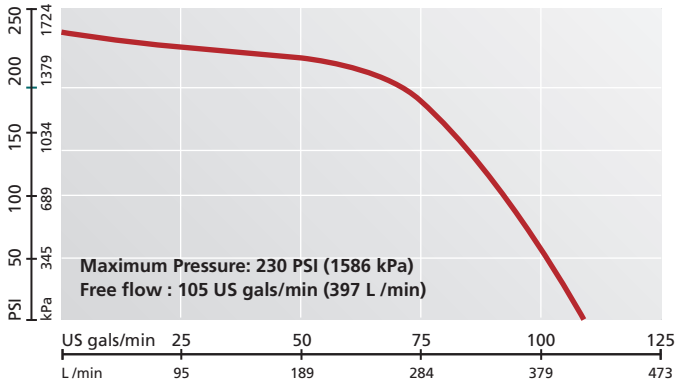
- Detachable 2-stage centrifugal pump end, Model **25-16**
- Hand primer
- Quick release pump clamp
- Belt driven speed increaser (See parts breakdown page 11-13)
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Stainless steel shaft
- Mechanical rotary seal with blister-resistant carbon seal face and a silicone carbide seat
- Governor system for overspeed protection
- 2" (51 mm) NPSH suction threads
- 1 1/2" (38 mm) NPSH discharge threads
- Fuel consumption 1.14 US gal/hour (4.3 L /hour)
  Length 33" (84 cm)
  Width 21" (54 cm)
  Height 21" (54 cm)
  Weight 126 lbs (57 kg)

Features

- US Forest Service approved spark arrestor
- Electric starter
- Low oil protection
- Hand-pump priming system
- Powder coated steel carry frame with vinyl grips
- Inlet & outlet protective caps
- Pressure gauge **GAUGE-1**
- Checkvalve (NH or NPSH)
- Foam solutions pumping capability
- Service manual **MAN-S2P-E**

Options

- Striker II-Plus slip version pump – less gauge, primer, checkvalve and frame **BB-26E-PLUS**
- Thread protector 2" (51 mm) NPSH **A-2688**
- Thread protector 1 1/2" (38 mm) NPSH, NH or 1/4-turn **(ADP-A-FM15S, ADP-L-FM15SN or FA-4)**
- Battery and cable kit **A-7612**
- Full control panel **180-005-01** (See page 21)
- **A-2356** Pump end tool kit



MINI-STRIKER®

Portable Single Stage Fire Pump

This pump unit is designed for use in some of the latest fire control techniques where small lightweight equipment is demanded. This pump is powered by a small and lightweight 4-stroke engine that meets the current emissions standards of the US EPA and CARB regulations.

The Mini-Striker® unit works well for other applications such as marine services, irrigation and the application of foam and other fire chemicals.

Engine Specifications

Engine	Honda® model GXH50 4-cycle, air-cooled Single cylinder, overhead valve
Maximum power	2.5 HP (1.8 kW)
Starting system	Recoil starter
Ignition system	Transistorized magneto
Stroke	1.41" (36 mm)
Bore	1.65" (41.8 mm)
Displacement	49.4 cc (3 cubic inches)
Lubrication	Oil
Oil capacity	0.26 US quart (0.25 L)
Integral fuel tank	0.32 US gal (1.2 L)

Pump Unit Specifications (See parts breakdown page 11-13)

- Close coupled single stage centrifugal pump
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Stainless steel shaft
- Mechanical rotary seal
- Governor system for overspeed protection
- Strong polyethylene mounting board with rubber mounts
- 1 1/2" (38 mm) NPSH or NH suction threads
- 1 1/2" (38 mm) NPSH or NH discharge threads
- Fuel consumption 0.24 US gal/hour (0.9 L / hour)

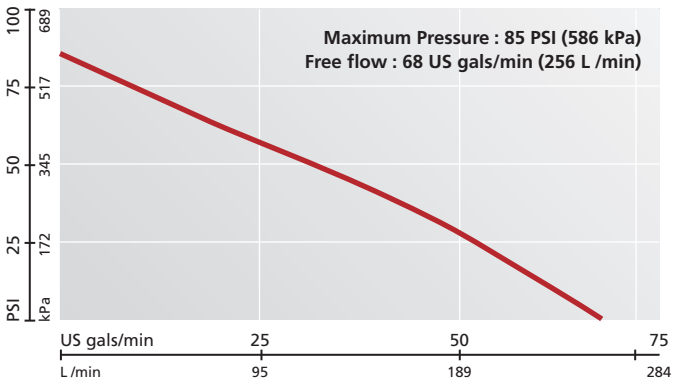
Length	15 3/4" (40 cm)
Width	10 3/4" (27 cm)
Height	15 3/4" (40 cm)
Weight	19.3 lbs (8.75 kg)

Features

- US Forest Service approved spark arrestor
- Integrated Low oil shut-off
- Inlet and outlet protective caps
- Foam solutions pumping capability
- Service manual **MAN-MS-E**

Option

- Thread protector 1 1/2" (38 mm) NPSH, NH or 1/4-turn **(ADP-A-FM15S, ADP-L-FM15SN or FA-4)**



MOSKITO®

Portable Single Stage Fire Pump

This lightweight, wildland initial attack pump combines high pressure and flow. The position of the 4-stroke pump will not harm the engine due to Honda's unique oil misting system. With only 4 bolts, the pump end can be easily removed for swapping purposes.

The Moskito® pump can be packed via firefighter or cargo slung via rotary wing aircraft vertically, horizontally, or upside down into fires. The position of the 4-stroke pump will not harm the engine due to this new technology. Compared to any two stroke pump in the same class and weight, it averages over 40% higher pressure, over 50% in noise reduction and 200% longer running time (1.5 hours with the integral tank).

This engine meets the current emissions standards of the US EPA and CARB regulations.

Engine Specifications

Engine	Honda® model GX31 4-cycle, air-cooled Single cylinder, overhead valve
Maximum power	1.5 HP (1.12 kW)
Starting system	Recoil starter
Ignition system	Transistorized magneto
Carburator	Diaphragm type
Stroke	1.02" (26 mm)
Bore	1.54" (39 mm)
Displacement	31cc (1.86 cubic inches)
Lubrication	Oil
Oil Capacity	0.11 US quart (0.10 L)
Integrated fuel tank	0.172 US gal (0.65 L)

Pump Unit Specifications (See parts breakdown page 11-13)

- Close coupled single stage centrifugal pump
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Mechanical rotary seal
- 1 1/2" (38 mm) NPSH or NH suction threads
- 1 1/2" (38 mm) NPSH or NH discharge threads
- Fuel consumption 0.1 US gal/hour (0.4 L / hour)

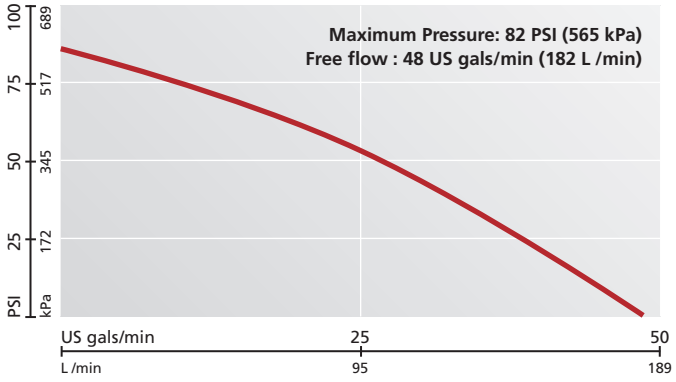
Length	11" (28 cm)
Width	12.5" (32 cm)
Height	12" (30 cm)
Weight	15 lbs (6.8 kg)

Features

- US Forest Service approved spark arrestor
- Inlet and outlet protective caps
- Foam solutions pumping capability
- Service manual **MAN-MM3-E**
- Multi-position 4-cycle engine

Option

- Thread protector 1 1/2" (38 mm) NPSH, NH or 1/4-turn **(ADP-A-FM15S, ADP-L-FM15SN or FA-4)**



WATERAX

WATERAX PUMP ENDS

WATERAX by Wildfire offers a line of premium pump ends. The quality, reliability, and durability of these pump ends are what make them the most trusted in the industry.

12-16
4-Stage Pump End

This specialized 4-stage pump end, typically used on the *WATERAX* Mark-3® and BB-4 units, is essential in water handling operations that require high pressure and involve long hose lays and high elevation. This unit moves an impressive volume of water at high pressures notwithstanding the demands resulting from long distances and high elevations. It is also the optimal pump end for type 4 and type 6 SKIDTANX/Slip-On units that demand high pressure. The 12-16's performance and dependability is unmatched.

18-16
3-Stage Pump End

This high performance 3-stage pump end, typically used on the *WATERAX* ULTRASTRIKER, is most effective for water handling operations that require high pressure and involve medium hose lays and moderate elevation. Used in conjunction with the *WATERAX* Drive Assembly, this pump end is a popular choice for many SKIDTANX/Slip-On applications.

25-16
2-Stage Pump End

This lightweight compact 2-stage pump end, typically used on the *WATERAX* STRIKERII-PLUS, is most effective for water handling operations that require high pressure and involve shorter hose lays and low to flat elevation conditions. Used in conjunction with the *WATERAX* Drive Assembly, this pump end is another popular choice for many SKIDTANX/Slip-On applications.

CENTRIFUGAL PUMP ENDS

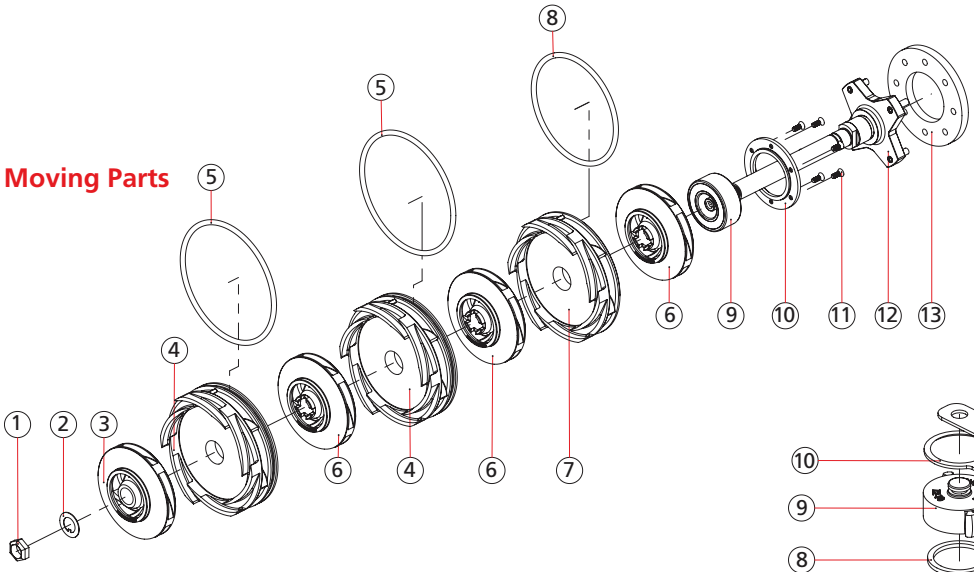
Moving Parts

Ref.#	Part #	Description	4-stage 12-16	3-stage 18-16	2-stage 25-16
1	12-50**	Lock nut, stainless steel	1	1	1
2	12-49**	Lock washer, stainless steel	1	1	1
3	12-11**	Impeller	1	1	1
4	12-9	Distributor	2	1	
5	12-27	O-ring	2	1	
6	12-7**	Impeller	3	2	1
7	12-6	Distributor	1	1	1
8	12-26	O-ring	1	1	1
9	12-48S*	Double row ball bearing, sealed	1	1	1
10	12-3*	Retaining ring for bearing	1	1	1
11	12-25	Mach. screw, stainless steel, nylon insert	6	6	6
12	12-2C*	Shaft and collar assembly, 4-stage	1		
12	18-2C	Shaft and collar assembly, 3-stage		1	
12	25-2C	Shaft and collar assembly, 2-stage			1
13	12-17	Coupling buffer	1	1	1
--	12-2D	Shaft sub-assembly, 4-stage, with impellers (incl. parts with * and **, 7 items)	--	--	--
--	12-2E	Shaft sub-assembly, 4-stage (incl. parts with *, 3 items)	--	--	--

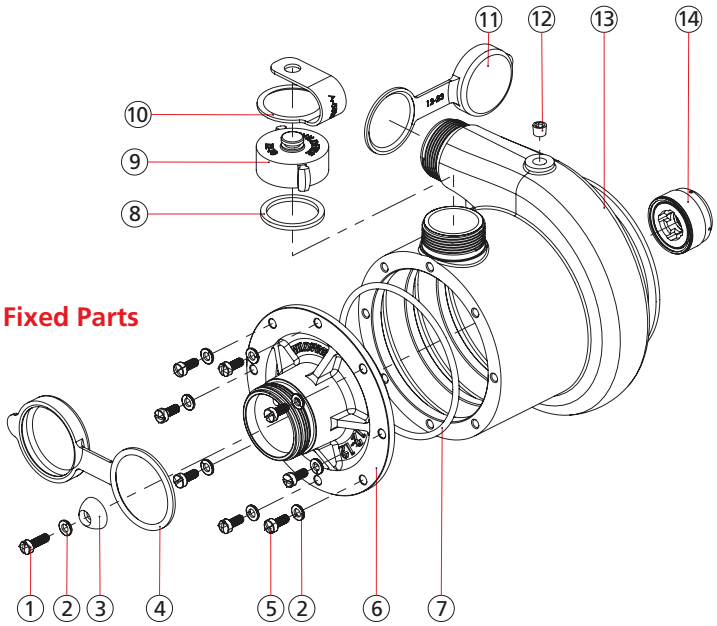
Fixed Parts

Ref.#	Part #	Description	4-stage 12-16	3-stage 18-16	2-stage 25-16
1	12-42	Mach. screw, stainless steel, nylon insert	1	1	1
2	12-38	Lock washer, stainless steel	9	9	9
3	12-13	Nose for shaft	1	1	1
4	A-5537	Protective cap, suction	1	1	1
5	12-39	Mach. screw, stainless steel	8	8	8
6	12-12A	Suction cover with bronze bearing	1	1	1
7	12-27	O-ring	1	1	1
8	12-43	Gasket 1 1/2" (38 mm)	1		
9	12-10	Cap for priming port	1		
10	A-5538	Retainer for priming cap	1		
11	A-5536	Protective cap, discharge	1	1	1
12	12-73	Plug, 1/8" NPT, brass	1	1	1
13	12-8	Pump body, 12-16 (4-stage)	1		
13	18-8	Pump body, 18-16 (3-stage)		1	
13	25-8	Pump body, 25-16 (2-stage)			1
14	12-28NS	Mechanical rotary seal	1	1	1
--	A-2688	Thread protector 2" NPSH (suction) (incl. gasket)	Optional		
--	A-2161	Thread protector 1 1/2" NPSH (discharge) (incl. gasket)	Optional		
--	A-7465	Thread protector 1 1/2" NH (discharge) (incl. gasket)	Optional		
--	FA-4	1/4-turn quick-connect adaptor (discharge) (incl. gasket)	Optional		

Moving Parts



Fixed Parts



B-2

B-2 Pump End

The *WATERAX* B-2 pump end is optimal for moving large volumes of water. It can be instantly coupled to the Mark-3® engine or the BB-4 engine with the same coupling system (P/N 212-170P). This practical versatility reduces overall inventory requirements, carrying weight capacity, and pump downtime in the field. It is the ideal pump end for high volume remote watering, high volume brush truck and *SKIDTANX*/Slip-On units, for municipal pumping operations, and as for uphill tandem pumping operations.

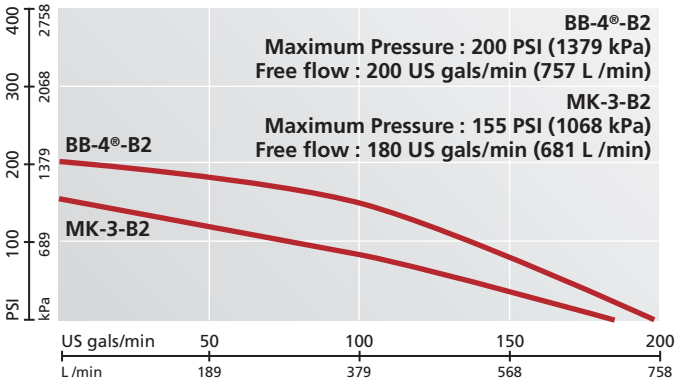
Option

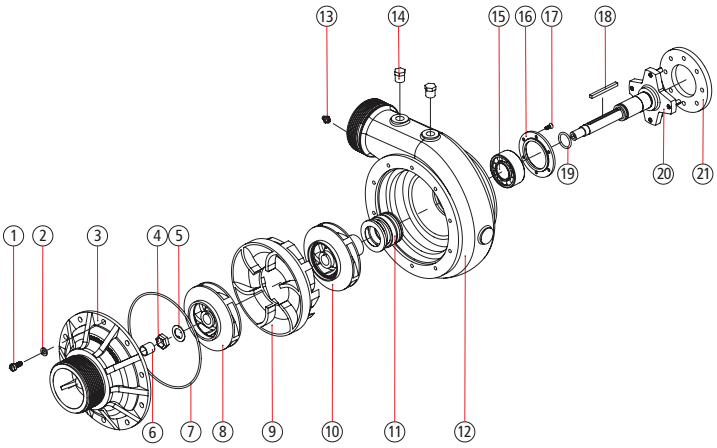
A-6128 2 1/2"" (64 mm) swivel nut NH

B-6076 Ball valve 2 1/2" (64 mm) less swivel nut.

Pump Unit Specifications

- Quick release pump clamp
- Lightweight aluminum alloy pump parts
- Anodized pump parts for corrosion resistance
- Stainless steel shaft
- Mechanical rotary seal
- 2 1/2" (64 mm) NH suction and discharge threads
- Weight 14.8 lbs (6.7 kg)
- Interchangeable on Mark-3® and BB-4®

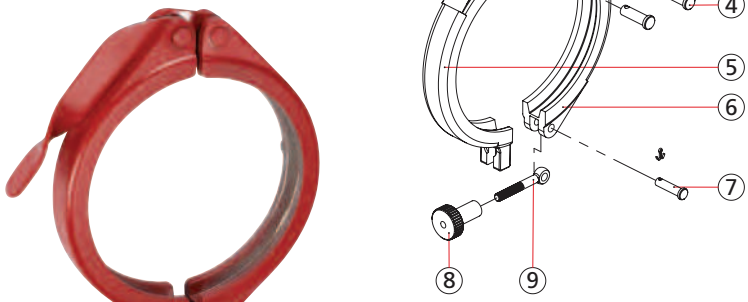

BB-4®-B2
Maximum Pressure : 200 PSI (1379 kPa)
Free flow : 200 US gals/min (757 L /min)
MK-3-B2
Maximum Pressure : 155 PSI (1068 kPa)
Free flow : 180 US gals/min (681 L /min)
BB-4®-B2
MK-3-B2
PSI 400 300 200 100
kPa 2758 2068 1379 689
US gals/min 50 100 150 200
L/min 189 379 568 758



Ref.#	Part #	Description	Qty
01	12-39	Mach. screw, stainless steel	10
02	12-38	Lock washer, stainless steel	10
03	B-7040	Suction cover	1
04	12-50	Lock nut, stainless steel	1
05	12-49	Lock washer, stainless steel	1
06	C-6600-23	Bushing bearing	1
07	C-7030-10	O-ring	1
08	B-7037	First impeller	1
09	B-7039	Distributor	1
10	A-7038	Second impeller	1
11	C-6600-9C	Rotary seal	1
12	C-7036	Pump body	1
13	12-29	Grease fitting	1
14	B-6365-11	Plug, 1/4" NPT, brass	2
15	12-48	Double row ball bearing	1
16	12-3	Retaining ring for bearing	1
17	12-25	Mach. screw, stainless steel, nylon insert	6
18	B-7030-16	Key, 3/16" sq., stainless steel	1
19	C-6600-21	O-ring	1
20	B-7034-1	Shaft and collar assembly	1
21	12-17	Coupling buffer	1

212-170P
Pump Clamp

The *WATERAX* pump clamp is used to couple the B-2 pump end and the 2-stage, 3-stage, and 4-stage *WATERAX* pump ends to their respective engines or drive assemblies. This easy-to-use clamp permits the quick exchange of pump ends out in the field for increased versatility and decreased pump downtime.

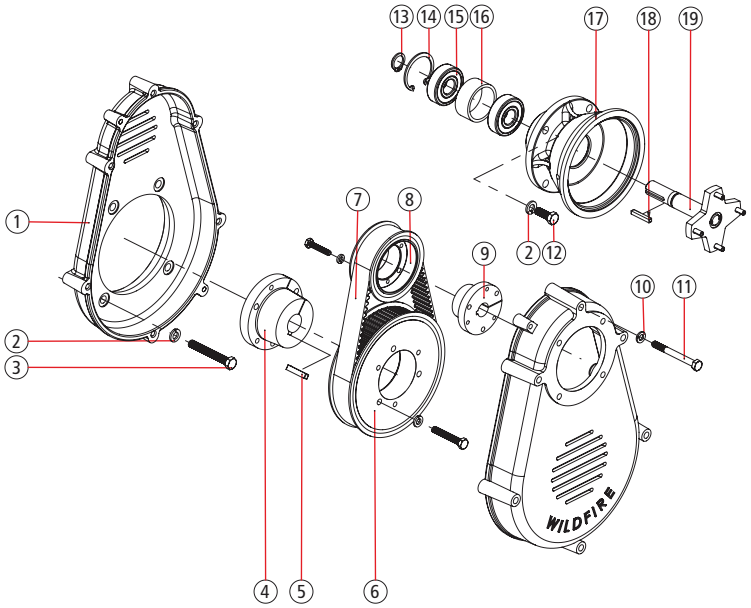


Item #	Part #	Manual Description	Qty
01	A-4460	Lever sub-assembly	1
02	A-4452	Side link for lever	1
03	C-4462-5	Cotter pin	3
04	A-4455	Clevis pin, lever side	2
05	B-4461	Clamp, top half	1
06	B-4457	Clamp, bottom half	1
07	A-4454	Clevis pin, eye bolt side	1
08	A-4456	Knob for tension adjustment	1
09	A-4453	Eye bolt	1

C-7220
Drive Assembly for BB-4, Striker II-Plus and Ultra-Striker

WATERAX by Wildfire offers an outstanding Drive Assembly that boosts the performance of pump ends.

The drive assembly increases the speed of pump revolutions resulting in increased pressure and flow. The Drive Assembly is used with the *WATERAX* pump clamp to enable the coupling of the Drive Assembly to the desired pump end.



Ref.#	Part #	Description	Qty
01	C-7721	Drive cover assembly (sold as a set)	1
02	FAST-502	Lock washer, steel, zinc plated	8
03	FAST-23	Bolt, engine mounting	4
04	PART-4	Bushing, 1" shaft (incl. 3 screws, 3 lock washers and set screw)	1
05	PART-7	Key, 1/4" sq., stainless steel	1
06	PART-2	Driving pulley	1
07	PART-1	Timing belt	1
08	PART-3	Driven pulley	1
09	PART-5	Bushing, 3/4" shaft (incl. 3 screws, 3 lock washers and set screw)	1
10	FAST-501	Lock washer	6
11	FAST-1	Bolt, drive cover assembly	6
12	FAST-2	Bolt, drive hub assembly	4
13	PART-8	Retaining ring, ext.	1
14	PART-9	Retaining ring, int.	1
15	PART-10	Bearing, drive hub	2
16	A-6956	Spacer, drive hub	1
17	C-6955	Drive hub body	1
18	PART-6	Key, 3/16" sq., stainless steel	1
19	A-7239	Shaft assembly, drive hub	1

B-5980
Hand Primer, Aluminum

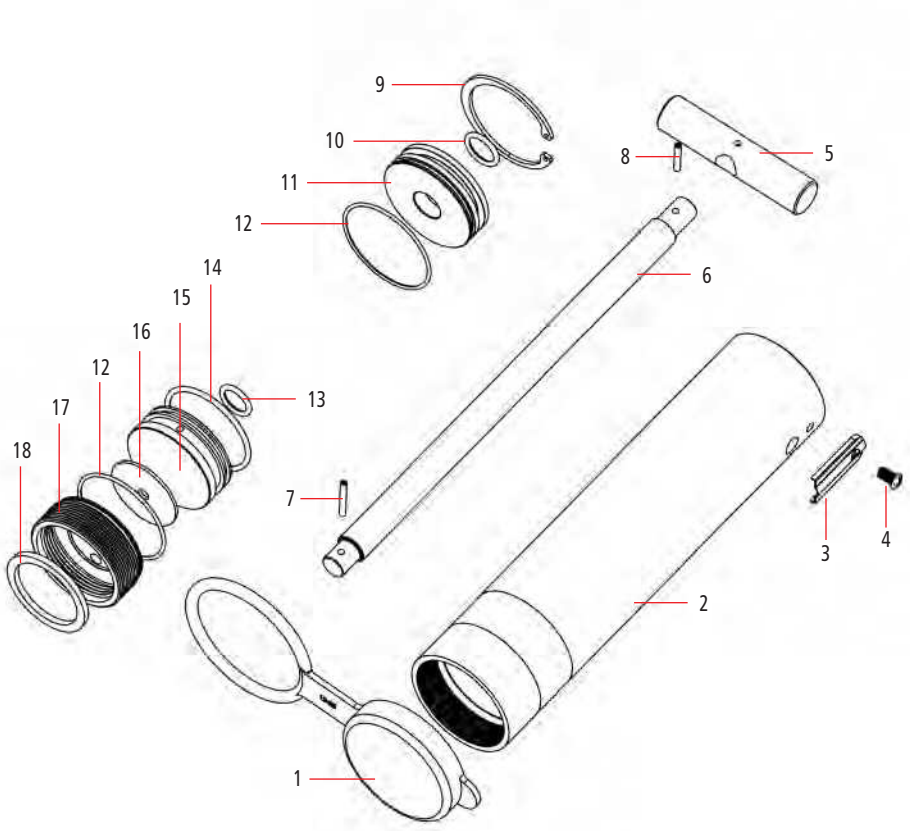
A quick and easy way to prime a pump with 2" x 10' (51 mm x 3.1 m) suction hose and 8' (2.4 m) lift in less than 20 seconds. Particularly useful and effective if pump is used to draw water from well, tank, etc. 1 1/2" (38 mm) female NPSH or NH (brass insert). Length: 12 1/2" (31.7 cm). 2 1/2 lbs (1.1 kg).

Option

B-5980P
Hand primer, plastic,
1 1/2" (38 mm)
female NPSH or NH

B-5980NH
Aluminum Hand Primer

Ref. #	Part #	Description	Qty
	DECAL-22	Decal Wildfire (not shown)	1
	A-6197	Decal handprimer (not shown)	1
01	A-5537	Suction cap	1
02	B-5982	Primer cylinder	1
03	A-5974	Water shield	1
04	D-5269-6	Phillips mach. screw	1
05	A-2543	Primer handle	1
06	A-5979	Primer shaft	1
07	A-5978-3	Tension spring pin	1
08	A-3023-1	Tension spring pin	1
09	B-5980-2	Retaining ring int.	1
10	B-5980-8	O-ring	1
11	B-5980	Primer cap	1
12	B-5980-13	O-ring	2
13	C-2486-16	O-ring	1
14	B-5980-3	O-ring	1
15	A-5977	Primer piston	1
16	A-5982	Primer valve seal	1
17	A-7528	Primer valve body	1
18	12-43A	Gasket	1

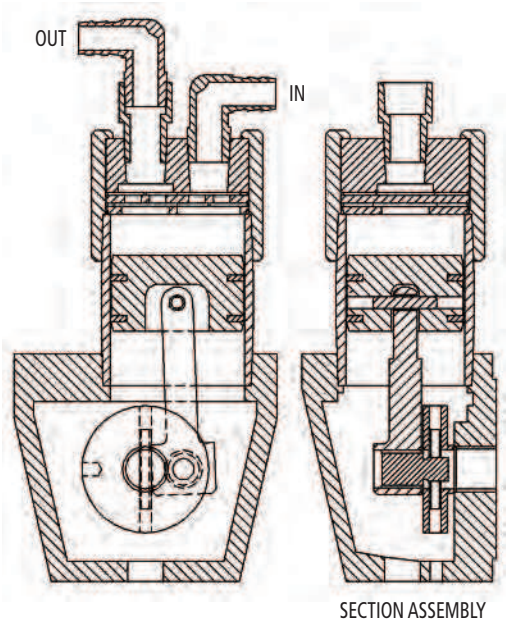


B-7498
Electric Priming Pump

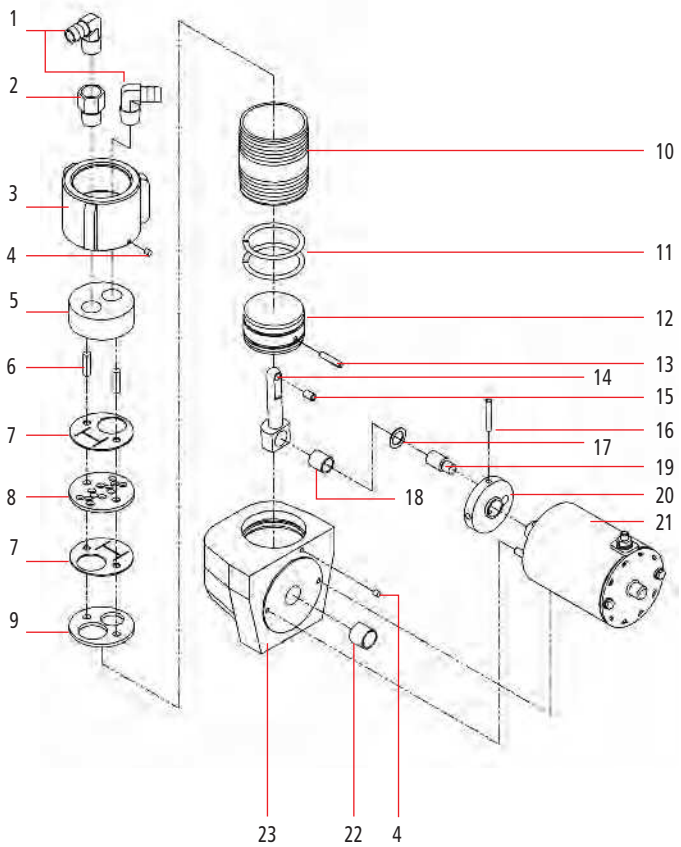
Piston pump coupled to a short duration rated 12 volt D.C. motor drawing approximately 105 amperes. Made of corrosion resistant materials, it measures 9" x 4 1/8" x 7 1/2" (229 x 105 x 191 mm) and weighs 8.1 lbs (3.7 kg).

Priming times: 2" x 10' (51 mm x 3,1 m) hose with 8' (2.4 m) lift in 4 seconds.
Maximum vacuum: 25' H_20 (7,6 m H20) / 22" Hg (560 mm Hg).

Ref.#	Part #	Description	Qty
01	A-6147-1	Elbow 1/2" barb to 3/8" male NPT, brass	2
02	B-6601W-27	Adaptor 3/8" male NPT to 3/8" female NPT, brass	1
03	A-6604	Nut	1
04	B-6870-31	Hex socket set screw, 10-24 NC x 3/16" L	2
05	A-6613	Block connection check valve, aluminum	1
06	B-6601-17	Coiled spring pin 1/4" x 7/8" L, steel	2
07	A-6617	Diaphragm, neoprene coated nylon	2
08	A-6598	Block check valve plate	1
09	A-6605	Retaining ring for check valve	1
10	A-7493	Cylinder body, brass	1
11	A-7497	Piston-ring, acetal	2
12	A-7491	Piston	1
13	FAST-714	Dowel pin 3/16" X 1" L, stainless	1
14	A-7492	Connecting rod, aluminum	1
15	PART-95	Bushing bearing, 3/16" ID x 1/4" OD x 3/8" L, bronze	1
16	A-6640-8	Spring tension pin 3/16" x 1 1/4" L, stainless	1
17	A-4643	Washer 1/2" ID x 3/4" OD x 0.030" thick, nylon	1
18	C-6600-23	Bushing for connecting rod	1
19	A-7495	Pin for crank disc	1
20	A-7494	Crank disc	1
21	B-7497	Electric motor modified, 12 volt DC	1
22	B-6870-16	Bushing bearing for motor shaft	1
23	C-6586	Housing for electric priming pump, aluminum	1
24	DECAL-22	Decal "WILDFIRE"	1
25	A-6659	Decal "12 Volt DC"	1



SECTION ASSEMBLY



A-2389
Tool and Accessory Box

For carrying pump tools, parts and fire line accessories. Complete with carrying handle, quick-action locking latch and continuous hinge. Heavy gauge sheet metal, painted.

Weight: 5 1/4 lbs (2,4 kg).
Measurements: 20" x 8 1/2" x 9 1/2" (50 x 21.6 x 24 cm).

A-2392-600
Pressure Gauge

Pressure gauge used in our A-7198 control panel. Liquid filled, 0-600 PSI (0-2800 kPa), 2 1/2" (64 mm) dial face, 1/4" (6.4 mm) male NPT, low mount front flange.

Options

GAU-213.40-25 0-600 PSI (0-4200 kPa) liquid filled, 2 1/2" (64 mm) dial face, 1/4" (6.4 mm) male NPT, low mount front
A-2392 0-400 PSI dry gauge used in our **A-2388** pump test kit
GAUGE-1 0-600 PSI (for BB-4® and Striker units)
180-PART4 0-600 PSI gauge for Deluxe Panel

GAU-213.40-25

A-2392

180-PART4

A-2388
Pump Testing Kit

For testing Wildfire centrifugal high-pressure fire pump units models: Mark-3®, Moskito™, Mini-Striker ™, Striker II-Plus ™, Ultra-Striker ™ and BB-4® or other pumps requiring evaluation.

Can be purchased separately or as a kit consisting of:

No.	Item	Description
1	A-2392	Pressure gauge, liquid filled, 0-400 PSI (0-2800 kPa), 4 1/2" (114 mm) dial face, 1/4" (6.4 mm) male NPT
2	F5095	Lined hose coupled 1 1/2" x 10' (38 mm x 3,1 m) NPSH (F5095E00F10RBALFS)
3	A-2389	Pump test kit box
4	A-2391	Rubber hose assembly, includes a set of 2 adaptors A-2391B
5	A-2391B	Adaptor
6	A-2390A	Shut off valve
7	A-2390	Pressure gauge adaptor, 1 1/2" (38 mm) female to 1 1/2" (38 mm) male NPSH
8	A-2395	Brass calibrated nozzle set: 1/8", 1/4", 5/16", 6/8", 7/16" (3 mm, 6 mm, 8 mm, 9.5 mm, 11 mm)
9	C-1933	Calibrated nozzle 1/2" (12,7 mm)

R-900
Tool Kit for Mark-3® Pump

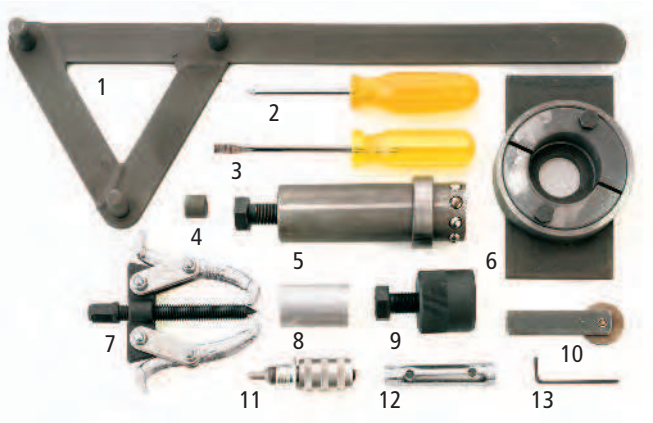
No.	Item	Description
1	PART-117	Grease gun
2	271-923	Wrench – adjustable 8" (203 mm)
3	R-911M	Wrench – box and open end 13 mm
4	R-906M	Wrench – box and open end 10 mm
5	R-910	Wrench – open end 1/2" x 9/16"
6	R-902	Screwdriver 2" (51 mm)
7	R-904*	Wrench – spark plug
8	A-3023*	Carburetor adjusting tool
9	R-901*	Screwdriver, 4" (102 mm) square handle
10	R-903	Feeler gauge spark plug and breaker point
11	R-908	Wrench – open end 5 x 8 mm (ignition)
12	R-905*	Handle – rod
13	271-928	6 mm T-handle drain plug wrench
—	271-488	Bag – tool roll

*Supplied as standard tools with pump unit.

R-900 shown rolled-up.

R-952
Tool Kit for Mark-3® Engine

No.	Item	Description
1	R-929	Flywheel holding tool
2	271-927	Screwdriver – Philips No. 1
3	271-346	Screwdriver – standard
4	R-928	Cap – shaft protector
5	R-930	Puller crankshaft bearing
6	R-938	Puller crankshaft bearing
7	R-932	Puller – collar coupling
8	R-933	Oil seal – pressing tool
9	R-927	Puller – magneto
10	R-953	Crankshaft jack
11	R-954-14	Gauge – timing
12	R-926	Socket wrench 9/16"
13	R-909	Key – Allen 3/32"



A-2356
Tool Kit for Wildfire pump ends (12-16 / 25-16 / 18-16)

No.	Item	Description
1	A-1884	Pressing sleeve – distributor assembly
2	A-4329	Pressing sleeve – rotary seal assembly
3	A-4097	Protector – shaft
4	A-1888	Puller – suction nozzle
5	A-1890	Pressing pin – shaft removal
6	A-1886	Pressing pin – distributor removal
7	R-904L	Wrench-spark plug
8	A-1887	Guide – shaft aligning, body
9	A-5297	Support tool
10	A-7644	Extraction Tool

DRAFTEX® SUCTION HOSE

Lightweight single jacket rigid suction hose, all polyester with helical reinforcement. Durable, flexible and compact. This suction hose will withstand 600 PSI (4200 kPa) test pressure and is recommended for tandem operation. Comes with 2" (51 mm) male and female NPSH or NH coupling.

	Standard Lengths	Weight coupled	Burst pressure
F3265E25F08RABXXS*	1 1/2" x 8' (38 mm x 2.4 m), NH	3.9 lbs (1.8 kg)	900 PSIG (6300 kPa)
F3265E25F08RAAXXS	1 1/2" x 8' (38 mm x 2.4 m) NPSH	3.9 lbs (1.8 kg)	900 PSIG (6300 kPa)
F3265E25F10RABXXS	1 1/2" x 10' (38 mm x 3.1 m) NH	4.5 lbs (2.0 kg)	900 PSIG (6300 kPa)
F3265E25F10RAAXXS*	1 1/2" x 10' (38 mm x 3.1 m) NPSH	4.5 lbs (2.0 kg)	900 PSIG (6300 kPa)
F3270E25F05RAAXXS	2" x 5' (51 mm x 1.5 m) NPSH	3.3 lbs (1.5 kg)	900 PSIG (6300 kPa)
F3270E25F08RAAXXS*	2" x 8' (51 mm x 2.4 m) NPSH	4.3 lbs (2.0 kg)	900 PSIG (6300 kPa)
F3270E25F10RAAXXS*	2" x 10' (51 mm x 3.1 m) NPSH	5.0 lbs (2.3 kg)	900 PSIG (6300 kPa)

*** Available on GSA federal supply schedule: GS-07F-5128A**

"WIRE-REINFORCED" SUCTION HOSE

BUC-263-10

Wire-reinforced suction hose is designed to give maximum service life under almost any condition. Not recommended for tandem operation, nor where heavy equipment will pass over the hose. Available in 1" to 4" diameter (25 to 102 mm) in any length up to 50' (15,2 m). Delivered with male and female rocker lug aluminum couplings.

	Standard Lengths	Weight coupled	Test Pressure
KIT-6-10151N†	1 1/2" x 10' (38 mm x 3.1 m) NH	12.0 lbs (5.4 kg)	230 PSI (1586 kPa)
KIT-6-10201†	2" x 8' (51 mm x 2.4 m) NH	12.8 lbs (5.8 kg)	180 PSI (1241 kPa)
BUC-263-10†	2" x 10' (51 mm x 3.1 m) NPSH	16.0 lbs (7.3 kg)	180 PSI (1241 kPa)

† Part number subject to change

PVC SUCTION HOSE

MK-150-8

Reinforced lightweight PVC hose, specially designed for the Mini-Striker ® to withstand 100 PSI (690 kPa) test pressure. Available in 1" to 6" (25 to 152 mm) diameter in any length up to 50' (15,2 m). Delivered with male and female rocker lug swivel couplings.

	Standard Lengths	Weight coupled
KIT-6-11152N†	1 1/2" x 8' (38 mm x 2.4 m) NH	3.9 lbs (1.8 kg)
MK-150-8†	1 1/2" x 8' (38 mm x 2.4 m) NPSH	3.9 lbs (1.8 kg)
KIT-6-11151N†	1 1/2" x 10' (38 mm x 3.1 m) NH	4.6 lbs (2.0 kg)
KIT-6-11202S†	2" x 10' (51 mm x 3.1 m) NPSH	8.0 lbs (3.6 kg)
KIT-6-11251N†	2 1/2" x 10' (64 mm x 3.1 m) NH	10.7 lbs (4.9 kg)

† Part number subject to change

B-5420
"V" Shaped Hose Strangler

Specifically designed for thin walled synthetic hoses, it has two positions or settings for different hose wall thickness 1/4" or 1/8" (6 or 3 mm). Replaceable rubber shoe prevents damage to hose. Light, corrosion resistant alloy. 11 1/2" (29 cm) long. 1.5 lbs (682 g). Can be carried in belt pouch FA-149. The B-5420 models have two "settings" that are designed to accommodate hose strangling for hoses of different thickness (single-jacket, double-jacket, etc...). One setting "squeezes tighter" than the other.

Options

FA-149 Standard pouch for B-5420

GVP-STRANGLER-POUCH Red nylon model

B-5420P Hose Strangler Painted Red

FA-149

B-5420

FA-3, FA-4
¼-Turn Couplings and Adaptors

CORDOVA by Wildfire offers an array of ¼-Turn, also known as quick-connect or instantaneous, couplings and adaptors. The advantage of ¼-turn is the speed in which hoses and connectors can be connected and disconnected. They also eliminate problems associated with incompatible threads, cross-threading, and damage to threads caused from wear in rugged wildland conditions.

Options

FA-7 1 1/2" (38 mm) 1/4-turn coupling set, includes gaskets and expansion rings

FA-8 1" (25 mm) 1/4-turn coupling set, includes gaskets and expansion rings

FA-12 Gaskets for 1 1/2" (38 mm) 1/4-turn couplings, adaptors and fittings

Other sizes and threads also available.

FA-3

FA-4

FA-7, FA-8

B-5258
Footvalve and Strainer

Spring-loaded check valve, capable of holding a water head equal to 300 PSI. Designed with an ear hole for ease of tying to a floatation device in order to prevent suction of debris. Specifically made for use on the MARK-3®, BB-4®, Striker II-Plus, Ultra-Striker ® and any other pumps using a 2" (51 mm) NPSH.

Options

KOC-BS151 Kocheck, 1 1/2" (38 mm) NH, aluminum

KOC-BS1561 Kocheck, 1 1/2" (38 mm) NPSH, aluminum

Other threads also available.

KOC-BS151

B-5258

A-6935
Ball Check Valve

Installed on the discharge side of the pump, the internal rubber ball instantaneously prevents water return when the pump stops. Very useful in uphill pumping to prevent possible damage to the pump from return pressures. This light corrosion resistant alloy valve has a brass pressure relief pin and two 1 1/2" (38 mm) 1/4-turn connections.

B-6397
Automatic Check Valve NH

The automatic check valve prevents pressure return. 1 1/2" (38 mm) female NPSH to 1 1/2" (38 mm) male NH with 1" (25 mm) female NPT bypass. Made with lightweight, anodized aluminum material.

Option

NPSH Version available **B-6365**

SPY-6815-3/4-700
Pressure Relief Valve

Relief valves are used to automatically bypass discharge from pump when nozzle is shut off or pressure becomes excessive. The adjustable type is set at 150 PSI (1050 kPa) but can be adjusted to any pressure. Brass adjustable relief valve 0-700 PSI (0-4900 kPa), 3/4" (19 mm) male NPT to 3/4" (19 mm) female NPT. Also available in 1/2" (13 mm).

FA-552Q
Fuel Air Transport Tank

Approved for air transport via rotary or fixed wing aircraft. Tough, lightweight, and rust proof with its unique and integrated fuel supply adaptor, this container meets the rigid US Military and UN standards (certification #MIL-C-53109). It is the only container to be registered by Transport Canada for UN performance packaging (certification #UN 3H1/Y1.0/200/yy/Can/Spr 2-456/2.3mm). Seamless all-plastic material, permanently "Olive Drab" colored finish. 5.3 US gals (20 L). Includes inner filter and ball type 1/4-turn fuel supply adaptor B-7462.

Options

12-401B-NS 51" (1.3 m) fuel supply hose with priming bulb

FA-131M FA-552 fuel air transport tank only

FA-132MIL Funnel

R-712 1/4-turn handle

R-732 Connector

A-7487 Fuel dust cap

FA-552Q shown with optional (12-401B-NS) fuel supply hose with priming bulb and optional (R-712) 1/4-turn handle.

B-7462

FA-352GSA
Fuel Carrying Tank

US Forest Service approved. Heavy-duty construction throughout, this pick-up portable unit has no petcock or other cumbersome protrusions. Its self-sealing quick coupler enables gasoline line to be changed from one can to another in seconds. 5 US gals (18.9 L).

Option

R-1206A 5' (1.5 m) fuel supply hose with priming bulb and SAE swivel female connectors

FA-352GSA shown with optional R-1206A fuel line

FA-452
Fuel Carrying Tank

The slim design of this marine fuel tank allows storing standing up or lying down. Comes with a standard fuel gauge and a 0.9 US gal (3.5 L) reserve fuel. UL and CSA standards certification for portable marine fuel tanks. High-density polyethylene, permanently red colored.

Capacity of 6.6 US gals (25 L).

FA-452 shown with fuel supply hose with priming bulb and handle quick-connect 12-401B-NS.

180-005-01
Wildfire Full Control Panel

Yellow faced metal panel with enclosed back includes the following: 4 1/2" (114 mm) liquid filled compound gauge, 0-600 PSI (0-4200 kPa) and 0-30" (0-76 cm) vacuum, starter button, start - stop switch with LED light, night operation light, hour meter, voltmeter, low water pressure safety cut out switch, throttle cable, a low oil pressure warning light, adjustable choke, and electric hose reel control with 12' (3.6 m) remote cable with push button control. Available options include a spotlight and a 5 light liquid level monitor.

Available on GSA federal supply schedule: GS-07F-5128A

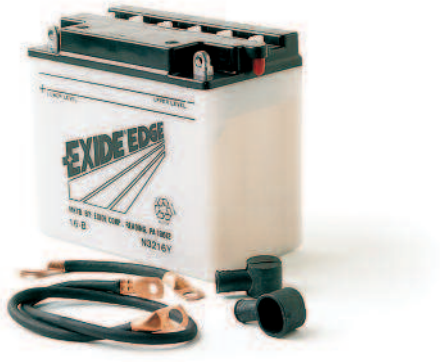
A-7198
Mini Control Panel

Black faced metal panel mounted with a 2 1/4" (57 mm) pressure gauge, lockable throttle, starter button, stop switch and choke. Designed to fit our **BB4 / Ultra-Striker® / Striker II-Plus** model units.

A-7612
Battery and Cable Kit

Kit designed for centrifugal fire pumps installed with speed increasers, belt driven (BB4 / Ultra-Striker / Striker II-Plus).

Note: Battery provided dry.



WHY USE CLASS "A" FOAM?

- Foam's surfactant improves water penetration of compacted fuels.
- Foam clings to and blankets the fuel, smothering the fire and reducing the air reaching the burning zone.
- Foam insulates the fuel from radiant heat, reducing the formation of combustible gases.
- Foam sticks to the fuel rather than running off as plain water often does.
- Foam can be a cost-effective tool through slowing or stopping flame spread more rapidly.
- Foam can be a cost-effective tool through reduced resource requirement.
- Foam can be used to protect structures, fencing and other resources within the burn.
- Foam reinforces control lines.

SCO-4071KIT

Foam Inductor/Mixer

"Around the Pump" unit for inducting foam concentrate into the hose lines of portable fire pumps, such as our Mark-3®, used in combating forest and urban/wildland fires. Calibrated to induct foam concentrate ratios of 0.1%, 0.5% and 1% into hose lines flowing 8 /15 / 30 / 50 US gals/min (30 / 57 /114 /190 L / min). Kit contains: Induction Unit, 1 1/2" (38mm) swivel NPSH tee, 2" (51 mm) swivel NPSH tee, pressure connecting hose and foam pickup hose.

Option

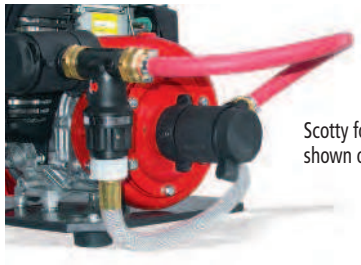
KIT-SCO-4071W/TEES NH version of SCO-4071KIT

Scotty foam inductor/mixer shown on a MARK-3® pump.

SCO-4072KIT

"Mini" Around the Pump Foam System

Small and economical "Mini" Around the Pump foam system was specifically designed for our smaller units fire pumps such as our Mini-Striker pump. The standard unit is calibrated for a 30 US gals/min (114 L / min) nozzle flow rate. Giving induction ratios of 0.2%, 0.5%, 0.7% and 1%. Kit contains: induction unit, two 1 1/2" (38 mm) swivel NPSH tees, pressure connecting hose, and foam pick-up hose. Optional: 50 and 70 GPM Kits.



Scotty foam inductor/mixer shown on a Mini-Striker® pump.

CHEMGUARD FIRST CLASS "A" FOAM NEW

(USFS Approved)

Chemguard First Class is a biodegradable Class "A" foam concentrate. When mixed with water in the correct proportion, it changes the properties of water. It reduces the surface tension of the water, and produces foam, which allows the water to cling to vertical or horizontal surfaces without run off. This allows the water to absorb more heat and provides greater penetration into Class "A" fuels.

CGD-FC5

Features

- **FULLY QUALIFIED** Class "A" foam concentrate under U.S.D.A. Forest Service Specification 5100-307
- U.L. Listed as Wetting Agent (NFPA 18:2006)
- Fully qualified for Fixed-Tank Helicopter
- Reduces water consumption by 3 to 5 times
- Can be used with either fresh or salt water
- Suitable with non-air-aspirating or aspirating handline nozzles
- Suitable for use in Helicopter Bambi bucket, Compressed Air Foam Systems (CAFS)
- Suitable for use on rubber (tires), coal, paper and many other types of Class "A" fuels
- Suitable for use through medium expansion nozzles on Class "A" or contained Class "B" flammable liquids
- Suitable for use with high expansion foam generators
- Does not contain reportable components under SARA Title 111/Section 313.F/40 CFR-372 or CERCLA

Recommended Dilution Rates

- Helicopter Bambi Bucket 0.5% - 0.7%
- Handline, air-aspirating nozzle 0.3% - 0.5%
- Handline, non-air-aspirating nozzle 0.3% - 0.6%
- Compressed air foam system 0.1% - 1.0%

Note: The above rates vary depending on the type of the foam blanket required. Water type/quality may also affect foam blanket.

Performance Standards

This standard tests the agent at dilution rates of 0.1% to 1.0% for use on Class "A" fuels. First Class combines excellent wetting characteristics with great foam formation for superior effectiveness on Class "A" fires. Use in ground trucks, CAFS Systems, helicopter and fixed wing aircraft with buckets, scupper, and tanks. Contains no hazardous material, safe for the environment.

Typical Properties at 77°F (25°C)

Appearance	Pale Amber Liquid
Specific Gravity	1.010
pH	7.5
Surface Tension @ 1.0% Solution	27.00 Dynes/cm
Viscosity	20 cps

Storage

If kept in the original unopened and airtight Chemguard supplied container and stored within the temperature range 32°F-120°F (0°C-49°C), a shelf life of 20-25 years can be expected. When stored in other than the manufacturer's supplied container, check with Chemguard for storage guidelines. If frozen during storage, thawing will render the product completely serviceable.

Note: It is not recommended to premix First Class concentrate with water for long-term storage.

Ordering Information & Weight

Part No:	Container	Weight
CGD-FC5	5-Gal Pail / 19 L	45 lbs. (20.3 kg)
CGD-FC55	55-Ga Drum / 208 L	495 lbs. (223 kg)
CGD-FC330	330-Gal Tote / 1249 L	3000 lbs. (1350 kg)

Options

CGD-FC5 First Class A Foam, 5 Gal Pail (19 L)
CGD-FC55 First Class A Foam, 55 Gal Drum (208 L)
CGD-FC330 First Class A Foam, 330 Gal Tote (1249 L)

SILV-EX CLASS "A" FOAM

SILV-EX® PLUS is a low, medium, and high expansion, Class A foam concentrate formulated from specialty hydrocarbon surfactants, stabilizers, corrosion inhibitors and solvents. This formulation provides superior cold weather performance. The latest development in the original forest fire control concentrate, SILV-EX PLUS has been proven effective on many deep-seated Class A fires such as tire fires, paper fires, coal fires, structure fires, and wild fires.

SILV-EX PLUS foam concentrate can be proportioned from 0.1% to 1.0% in fresh, brackish or sea water. When used as a pre-mixed solution, only fresh or potable water should be used if the premix is to be stored over long time periods. Due to its extremely low proportioning rate, SILV-EX PLUS foam concentrate offers outstanding economy in concentrate storage space, cost (compared to conventional 3% and 6% foaming agents) and water hauling requirements.

ANS-434467 *Silv-Ex Plus, 5 US gallons (19 L)

ANS-434469 Silv-Ex Plus, 55 US gallons (208 L)

*** Meets the requirements of Forest Service Specification 5100-307**

Typical Physiochemical Properties at 77 °F (25 °C)

Appearance	Light Amber Clear Liquid
Density	1.010 g/ml ± 0.010
pH	7.0 – 8.5
Refractive Index	1.3660 ± 0.0035
Viscosity	12 ± 3 centistokes
For comparison purposes, the viscosity of 10W40 motor oil is 160 centistokes at 77 °F (25 °C) and 800 centistokes at 12 °F (–11.1 °C).	
Surface Tension	
Water	66 to 76 dynes/cm
0.1% SILV-EX PLUS solution	27.20 dynes/cm
0.6% SILV-EX PLUS solution	26.80 dynes/cm
1.0% SILV-EX PLUS solution	26.60 dynes/cm
Flash Point	> 200 °F (93.3 °C)
Pour Point	22 °F (–5.5 °C)

AFFF (Aqueous Film Forming Foam)

ANSULITE® 1% - concentrate
Approvals / Listings
UL listed - freeze protected foam also available

ANS-415301 Ansulite AFFF 1%, freeze protected, 5 US gallons (18.9 L)

ANS-415303 Ansulite AFFF 1%, freeze protected, 55 US gallons (208.2 L)

ANSULITE® 3% - Concentrate

Approvals / Listings
UL listed - FM approved
MIL-F-24385F on qualified products
Freeze protected foam also available

ANS-55800 Ansulite AFFF 3%, 5 US gallons (18.9 L)
ANS-55809 Ansulite AFFF 3%, 55 US gallons (208.2 L)

ANSULITE® 6% - Concentrate

Approvals / Listings
UL listed - FM approved - Canadian General Standards Board (Canada)
MIL-F-24385F on qualified products

ANS-54391 Ansulite 6%, 5 US gallons (18.9 L)
ANS-54392 Ansulite 6%, 55 US gallons (208.2 L)

ALCOHOL RESISTANT AFFF

ANSULITE® 3x3 - low viscosity concentrate
Approvals / Listings
UL listed - USCG approved - FM approved

ANS-416493 Ansulite 3x3 ARC, 5 US gallons (18.9 L)
ANS-416495 Ansulite 3x3 ARC, 55 US gallons (208.2 L)

ANSULITE® ARC - 3% and 6% concentrate

Approvals / Listings
UL listed - FM approved

ANS-55797 Ansulite 3% and 6% ARC, 5 US gallons (18.9 L)
ANS-55808 Ansulite 3% and 6% ARC, 55 US gallons (208.2 L)

HIGH EXPANSION FOAM

JET-X® - concentrate
Approvals / Listings
UL listed - FM approved

ANS-420008 Ansulite JET-X®, 5 US gallons (18.9 L)
ANS-420009 Ansulite JET-X®, 55 US gallons (208.2 L)

PROTEIN FOAM

3% regular protein concentrates
Approvals / Listings
UL listed

ANS-73971 Protein foam 3%, 5 US gallons (18.9 L)
ANS-73970 Protein foam 3%, 55 US gallons (208.2 L)

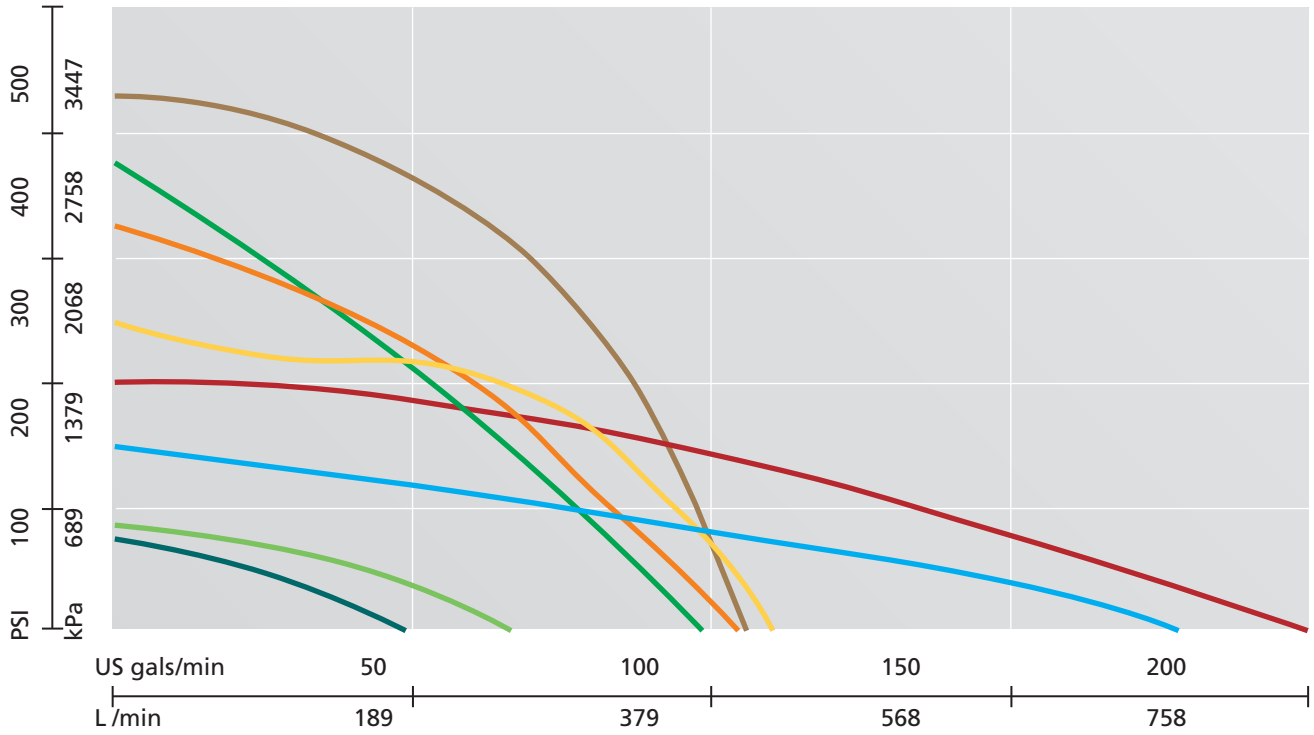
FLUOROPROTEIN FOAM

3% fluoroprotein concentrates
Approvals / Listings
UL listed

ANS-73973 Fluoroprotein foam 3%, 5 US gallons (18.9 L)
ANS-73972 Fluoroprotein foam 3%, 55 US gallons (208.2 L)

PORTABLE FIRE PUMP CURVES

The *WATERAX* by Wildfire line offers an array of pumps whose volume and pressure outputs are tailored to the various applications and unique requirements of superior water handling systems.



BB-4®
BB-4®-B2
MARK-3®
MARK-3-B2®
STRIKER II-PLUS®
ULTRA-STRIKER®
MOSKITO®
MINI-STRIKER®

TRAINING AND EMERGENCY SERVICES

Wildfire's commitment to customer service and industry knowledge is unparalleled. Ever since our entry into the fire control industry in the 1920s, when the company initially established itself as a manufacturer of the powerful 200 psi portable fire pump called the WAJAX, we have been involved in manufacturing and distributing a full range of fire fighting equipment.

Wildfire's expertise in complete systems from the water source to the fire is where our strength lies when serving the wildland and urban interface firefighting community. Our distribution network with branches in strategic locations throughout Canada and the United States and export agents in other international markets provide the after sales service which is of utmost importance in the fire service.

Wildfire has considerable experience in mounting training seminars worldwide for both end users of the equipment and local distributors. These seminars include the application of the equipment for fire fighting situations, the recovery and maintenance of the equipment, as well as workshops on fire control in general.

Wildfire prides itself on its sense of urgency during emergency situations and its ability to respond quickly when it matters most. In fact, it is the very foundation upon which Wildfire's reputation is built and is what makes it the preferred choice in a field where trust matters most.

It is for this reason that Wildfire continues to have a 24 hour emergency line (1 800-426-5207) available year round for sourcing and supplying fire equipment or specific support services. Our team loyally works side by side with our customers and carries this responsibility with the utmost pride and dedication.

WARRANTIES

A. Warranty on Products Distributed by Wildfire

Wildfire makes no warranty, express or implied, with respect to any product distributed by it and manufactured by third-party manufacturers. You, the purchaser, can only rely upon such warranties, if any, that are made by their respective manufacturers and subject the limitations that may be contained in such warranties according to the respective terms thereof. Wildfire hereby assigns, as applicable, any such manufacturer warranty to you as the purchaser, if assignable. However, Wildfire disclaims all other warranties or conditions for items whether express, oral, implied or otherwise, as to any matter whatsoever, including but not limited to, implied warranties or conditions of merchantable quality or fitness for a particular purpose and those arising by statute or otherwise in law or form a course of dealing usage of trade.

B. Warranty on Products Manufactured by or for Wildfire

Wildfire offers a limited warranty as described fully below. Among other things, it also specifically disclaims liability for:

- Failure of the product if it is used for other than its intended purpose.
- Changes or modifications not expressly approved by Wildfire.
- Unreasonable use, supplemental damage, or damage to the product not resulting from defects in material or workmanship.
- Any personal injury, damages of any kind resulting from misuse, improper installation, negligence, repair or alteration of the product.

No Consequential Damages

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This statutory warranty gives you specific legal rights, and you may have other rights, which vary from state to state or province to province. Wildfire offers a limited guarantee of all products manufactured by Wildfire to be free of defects in material and/or workmanship for a period of one (1) year from date of invoice subject to use of such products strictly according to instructions. Any product manufactured by or for us believed by you to contain a defect must be returned to Wildfire for examination and evaluation. You are responsible for payment of transportation charges. If after inspection by us or an expert appointed by us the product is in fact found to be defective, Wildfire will repair or replace the defective product and reimburse the original buyer for transportation charges to and from our warehouse.

Limitation of Liability

THE WARRANTY SPECIFIED HEREIN IS LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED, OR IMPLIED.

Wildfire hereby expressly disclaims any express or implied warranties of merchantability or of fitness for any particular purpose.

Wildfire's liability on any claim of any kind, including negligence, for any damage or loss including but not limited to personal injury or consequential damage arising out of, connected with or resulting from this contract, or from the manufacture, lease, sales, delivery, resale, return, repair, maintenance, handling or use of any product covered by or furnished under this sale, shall in no case exceed the purchase price. Wildfire shall not be liable for any penalty or for any special, indirect or consequential damages, including, but not limited to, any economic loss, loss of revenue or loss of opportunity.

The foregoing warranty is in lieu of all other warranties, express or implied, including but not limited to, any implied warranties of merchantability or fitness for a particular purpose. Your exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever, including our negligence, shall be repair or replacement as specified above. We shall in no event be liable for any consequential or incidental damages of any nature, including without limitation, damages for personal injury or damages to property, and however occasioned, whether alleged as resulting from breach of warranty or contract by us or our negligence or otherwise.

WATERAX / wildfire

Tech-notes, part lists and other documents can be found on our web site at
www.wildfire-env.com

Wildfire Environmental USA Inc.

16311 NE Cameron Blvd
Portland, OR
USA 97230
Tel.: (800) 426·5207
(503) 257-7900
Fax: (503) 257-7979

950 Riverside Parkway, Suite 50
West Sacramento, CA
USA 95605
Tel.: (800) 426-5207
(916) 372-9004
Fax: (916) 372-9006

Wildfire Environmental Inc.

1100, rue Norman street, Suite 200
Lachine, QC
Canada H8S 1A6
Tel.: (800) 426-5207
(514) 637-5572
Fax: (514) 637-3985
E-mail: info@wildfire-env.com

2602 Mount Lehman Road, Suite 102
Abbotsford, BC
Canada V4X 2N3
Tel.: (800) 426-5207
(604) 864-4176
Fax: (604) 864-4186

17426 - 106A Avenue
Edmonton, AB
Canada T5S 1E6
Tel.: (800) 426-5207
(780) 484-3705
Fax: (7S0) 484-5115

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